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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION OF

LIM

Appln. No.: 09/878,246

Filed: June 12, 2001



Group Art Unit: Unassigned

Examiner: Unassigned

Title: ENCRYPTION APPARATUS USING DATA ENCRYPTION STANDARD ALGORITHM

March 11, 2002

\* \* \* \* \*

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INFORMATION DISCLOSURE STATEMENT

I hereby certify that each enclosed document listed on the herewith Form PTO-1449 was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months ago by the attached Great Britain Communication (☒ Search Report ) dated January 22, 2002. See that communication for information on each document.

This IDS is intended to be in full compliance with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under Rule 97(f), to enable Applicant to comply fully.

Contingent IDS Request Under Rule 97(d): Should a Final Rejection or Notice of Allowance issue with a mailing date which precedes or is the same as the filing date of this IDS, please consider this a Request under Rule 97(d), charge the IDS fee (Rule 17(p)) to our Deposit Account No. 03-3975 under Order No. 82123/281196, and proceed to consider this IDS under Rule 97(d).

Consideration of the foregoing and enclosures plus the return of a copy of the enclosed Form PTO-1449 with the Examiner's initials in the left column per MPEP 609 are earnestly solicited along with an early action on the merits.

Respectfully submitted,  
PILLSBURY WINTHROP LLP



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INVESTOR IN PEOPLE

**Application No:** GB 0114277.7  
**Claims searched:** 1-8

**Examiner:** Matthew Nelson  
**Date of search:** 22 January 2002

## Patents Act 1977 Search Report under Section 17

### Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.T): H4P (PDCSL, PDCSP)

Int Cl (Ed.7): H04L 9/06

Other: Online: WPI, EPODOC, JAPIO, INSPEC

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### Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
A	EP 0403456 A2 (TELEVERKET) See figure 4.	All
A, P	WO 01/17152 A1 (COPPE/UFRJ) See whole document.	
A	US 5317638 (KAO et al) See col. 3, lines 44-58.	
X, P	"Proceedings of Second IEEE Asia Pacific Conference on ASICs", published 2000, IEEE, p 175-178, Y W Lim "Efficient 8-cycle DES Implementation", see in particular figures 4 and 5.	

X Document indicating lack of novelty or inventive step  
Y Document indicating lack of inventive step if combined with one or more other documents of same category.  
& Member of the same patent family

A Document indicating technological background and/or state of the art.  
P Document published on or after the declared priority date but before the filing date of this invention.  
E Patent document published on or after, but with priority date earlier than, the filing date of this application.



Atty. Dkt. No.	M#	Client Ref.
	281196	P00HA009/US

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicant: LIM

Appln. No.: 09/878,246

Filing Date: June 12, 2001

Examiner: IUnassigned      Group Art Unit: Unassigned

Date: March 11, 2002      Page 1 of 1

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR	5,317,638	Kao et al.			
	BR					
	CR					
	DR					
	ER					
	FR					
	GR					
	HR					
	IR					
	JR					
	KR					
	LR					
	MR					
	NR					

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**FOREIGN PATENT DOCUMENTS**

		Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
						Enclosed	No	Enclose	No
	OR	403 456 A2	12/1990	EPO	Ohlson			X	
	PR	WO 01/17152 A1	03/2001	PCT	Cardoso Sa- Lomato			X	
	QR								
	RR								

**OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)**

	SR	Lim, "Efficient 8-Cycle DES Implementation," ©2000 IEEE, 0-7803-6470-8, pp. 175-178.			
	TR				
	UR				
	VR				
	WR				
	XR				

Examiner \_\_\_\_\_ Date Considered: \_\_\_\_\_

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.